

TURNING DATA SETS INTO ASSETS, EVERYONE IS DOING IT WHY AREN'T YOU? ”



Creating a “Forever Song”

NWQMC 2019 Conference



ASSETS = DATA USED > 1 TIME = FOREVER SONG



erty:

come ass

found - Available, accessible, c

2. Contain minim

data

nic/te

endly

ormation to inform user of

ds, quality, extent

cator





**20
YEARS**

TOP REASONS VM/CS FALL SHORT

1. Volunteer Recruitment or Retention
2. Data Not Used
3. Resources - Sustainability

Asset?

TOP REASONS CWA AGENCIES FALL SHORT

1. Collaboration Leverage
2. Data Not Used >1x
3. Resources - Sustainability

HOW TO MAKE DATA SETS ASSETS

Evaluate

**Commit & ID info
needs & align purpose,
use, users, ROI's**

Step 5

Step 1

IMPLEMENT

**Manage data for
info products**

Step 4

Step 2

**Inventory info generating,
map work flow**

Step 3

**Manage Raw
Data to Verified**

EFFECTIVE MONITORING PROGRAMS

Produce Measurable, trackable or identifiable
ROI's:

Outputs

Results

Outcomes

Impacts

Data as Asset

EFFECTIVE STUDY DESIGN



COLORADO RIVER WATCH

Real People Doing Real Science for a Real Purpose

1. Started 1989
2. Serves 140 groups, 500 stations/yr
3. 7-field & 26 metals-total & dissolved monthly, 7-nut 2/yr, bugs/phys hab 1/yr

***Top VM # of records in Portal**

1. Goals: Generate quality data for CWA & Hands-on experience with rivers

HOW TO MAKE DATA SETS ASSETS

Evaluate

Commit & ID info
needs & **align purpose,
use, users, ROI's**

Step 5

Step 1

IMPLEMENT

Manage data for
info products

Step 4

Step 2

Inventory info generating,
map work flow

Step 3

Manage Raw
Data to Verified

Each Monitoring ?

Continuum of Study Purposes

Condition /Trend – Impact – Effectiveness – Use Support

Continuum of Uses or Management Decisions

Education – Inquiry – Advocacy – Planning – Regulatory – Legal

Continuum of Users

Youth, Adults, Farmers, Managers, Districts, Local G, State G, Fed G

Continuum of ROI's

Behavior Change-Uses Met-Regulation-Policy-Health-Economy

Data
Pathway

Or
Information
Blue Print

Info needs &
Products

Evaluation



COLORADO RIVER WATCH

Real People Doing Real Science for a Real Purpose

SAME Study Design generates
multiple Data Pathways and ROI's

HOW TO MAKE DATA SETS ASSETS

Evaluate

**Commit & ID info
needs & align purpose,
use, users, ROI's**

Step 5

Step 1

IMPLEMENT

**Manage data for
info products**

Step 4

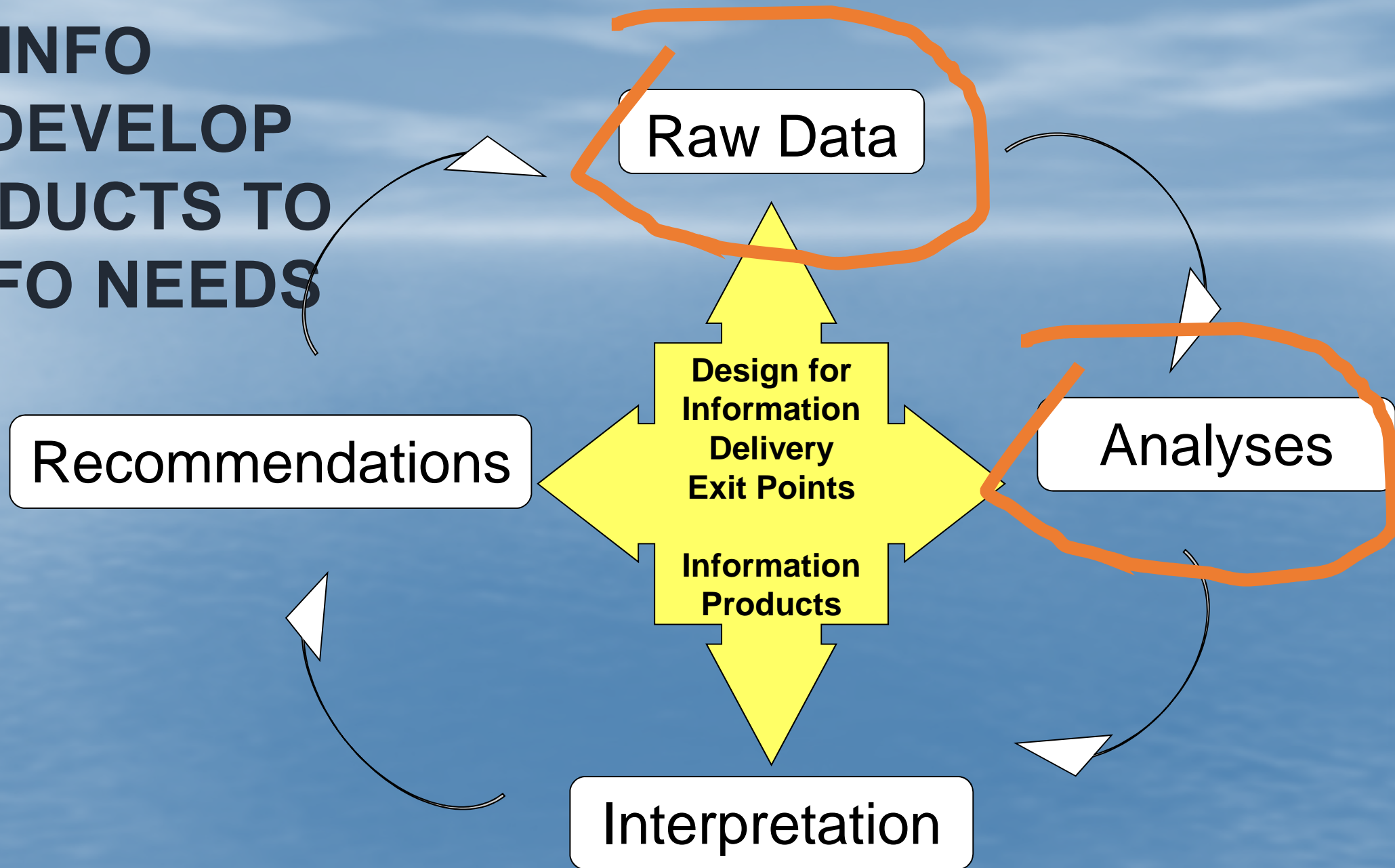
Step 2

**Inventory info generating,
map work flow**

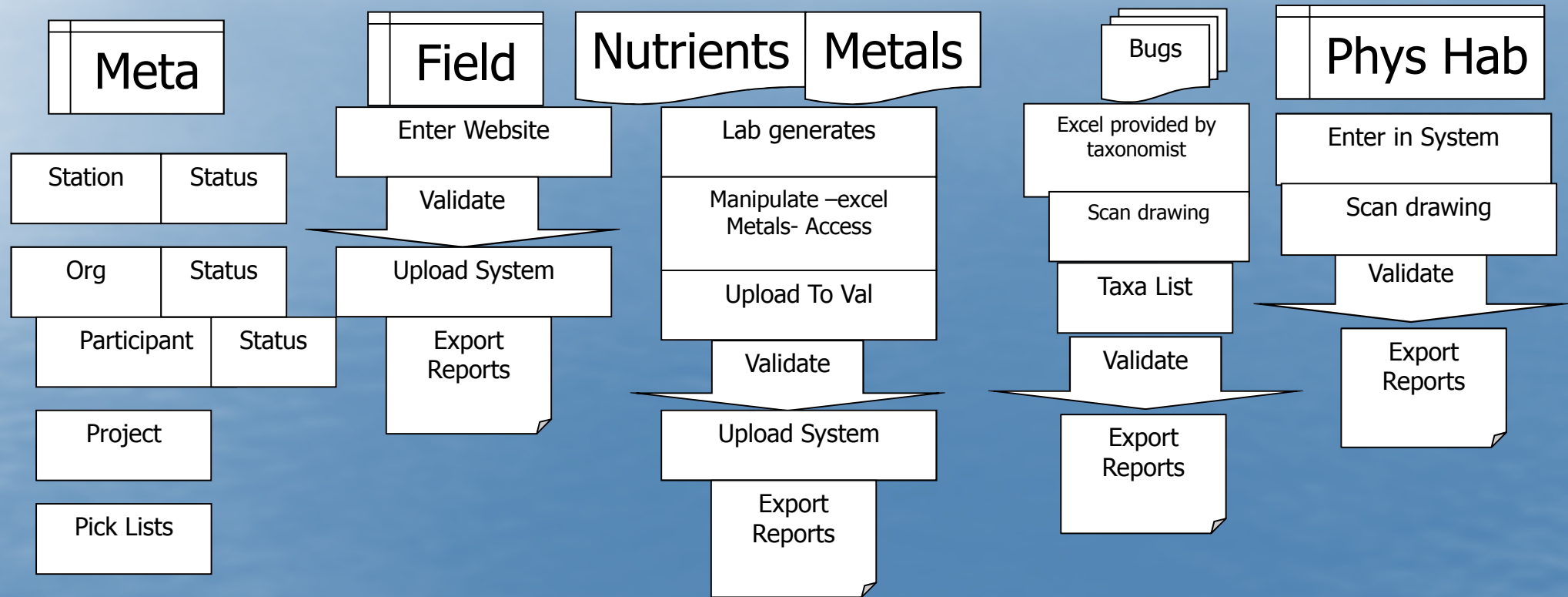
Step 3

**Manage Raw
Data to Verified**

IDENTIFY INFO NEEDS – DEVELOP INFO PRODUCTS TO SERVE INFO NEEDS

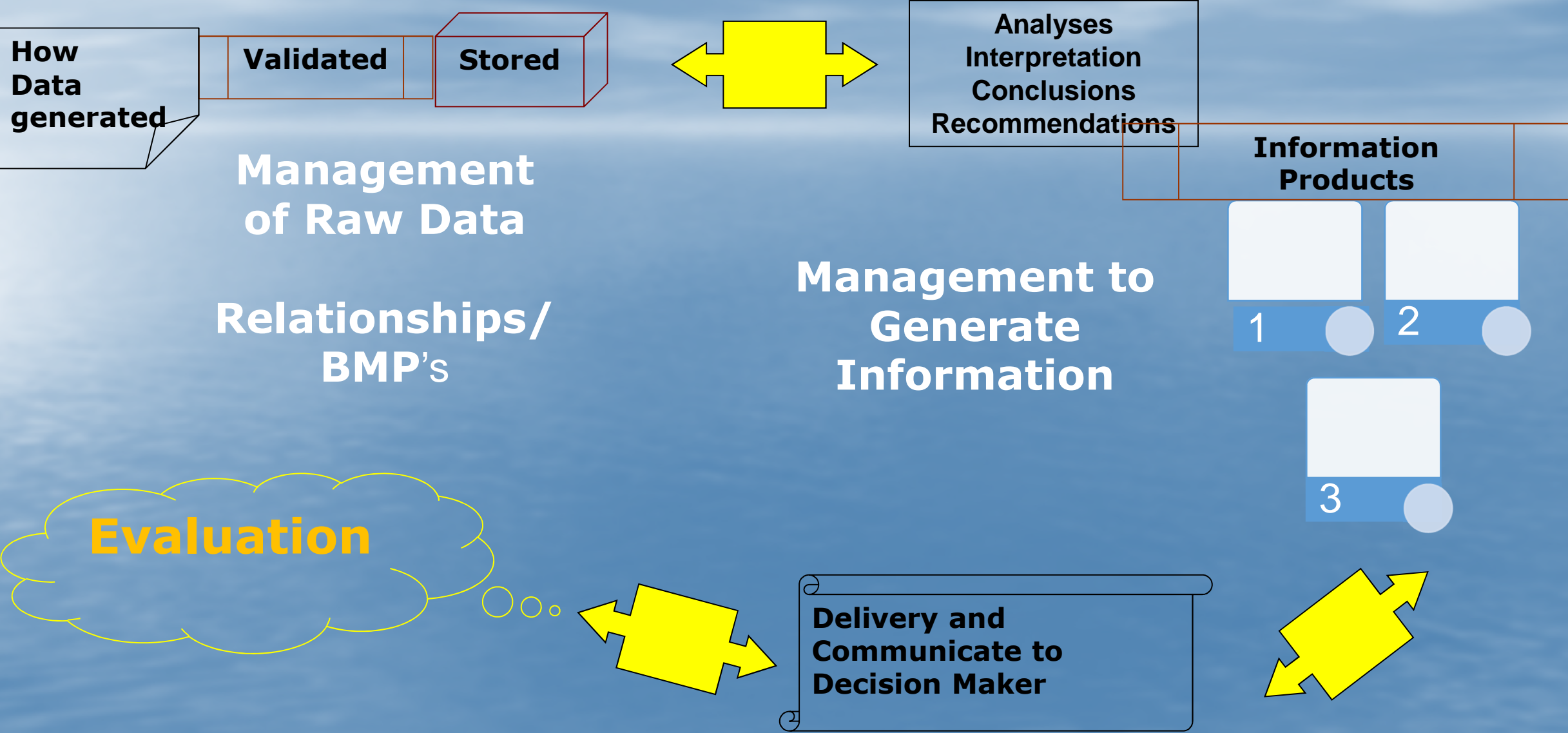


INVENTORY WHAT GENERATING & PATH TO REPOSITORY AND INFO PRODUCTS



Example of raw data mapping for CO River Watch

MAP DATA PATH FOR EVERY INDICATOR



HOW TO MAKE DATA SETS ASSETS

Evaluate

**Commit & ID info
needs & align purpose,
use, users, ROI's**

Step 5

Step 1

IMPLEMENT

**Manage data for
info products**

Step 4

Step 2

**Inventory info generating,
map work flow**

Step 3

**Manage Raw
Data to Verified**



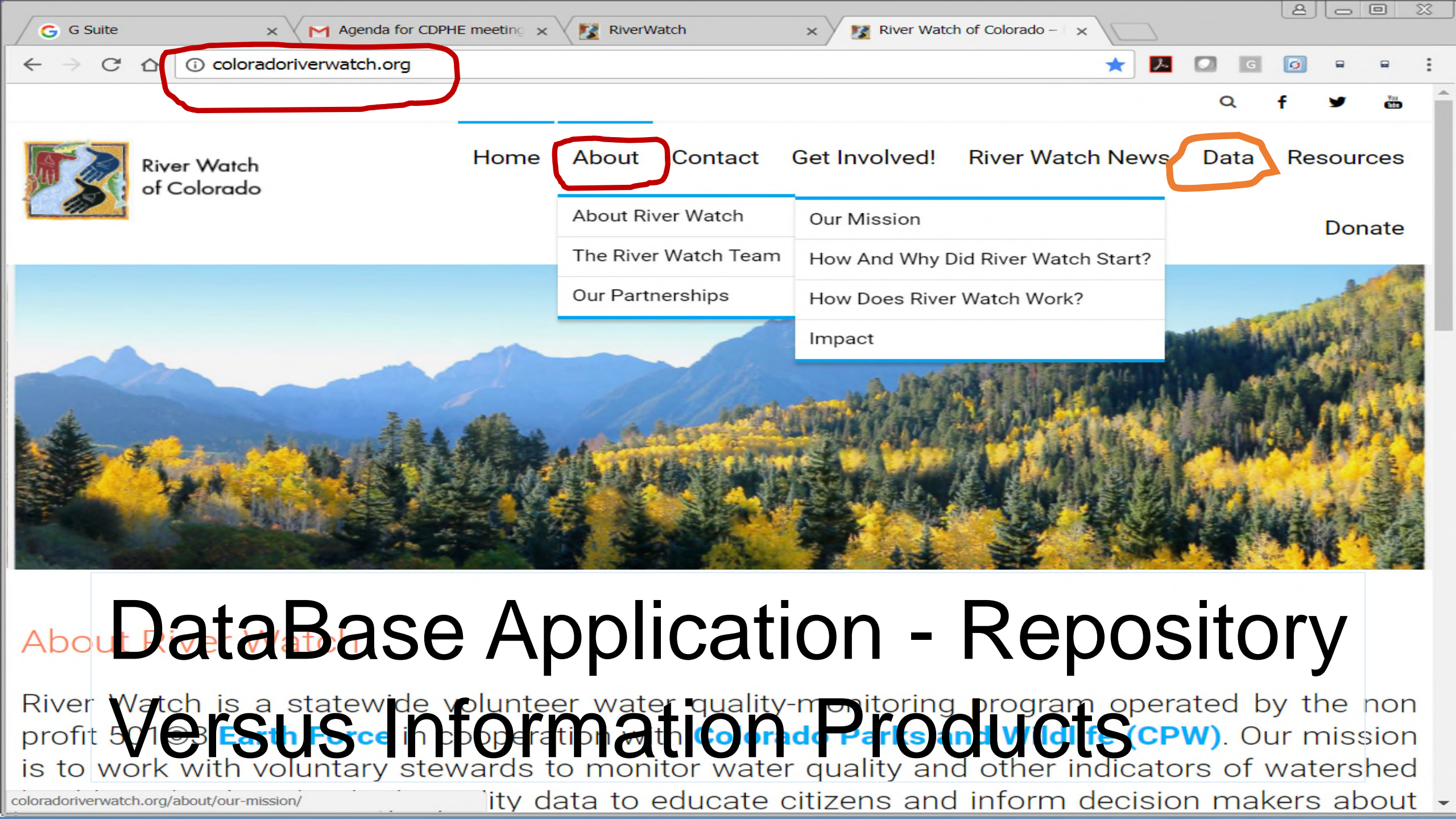
COLORADO RIVER WATCH

Real People Doing Real Science for a Real Purpose

1989—pre desk top computer

Used National WQ Portal Schema
to design application,

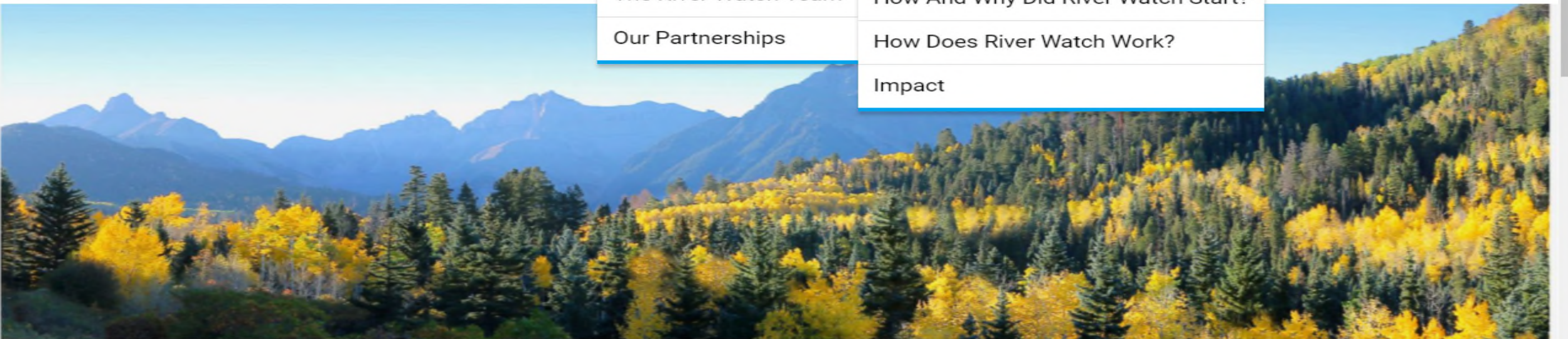
added organization, equipment &
meta data pieces



Home About Contact Get Involved! River Watch News Data Resources

- About River Watch
- The River Watch Team
- Our Partnerships
- Our Mission
- How And Why Did River Watch Start?
- How Does River Watch Work?
- Impact

Donate



About River Watch

River Watch is a statewide volunteer water quality-monitoring program operated by the non profit 501(c)(3) **Earth Force** in cooperation with **Colorado Parks and Wildlife (CPW)**. Our mission is to work with voluntary stewards to monitor water quality and other indicators of watershed

ity data to educate citizens and inform decision makers about

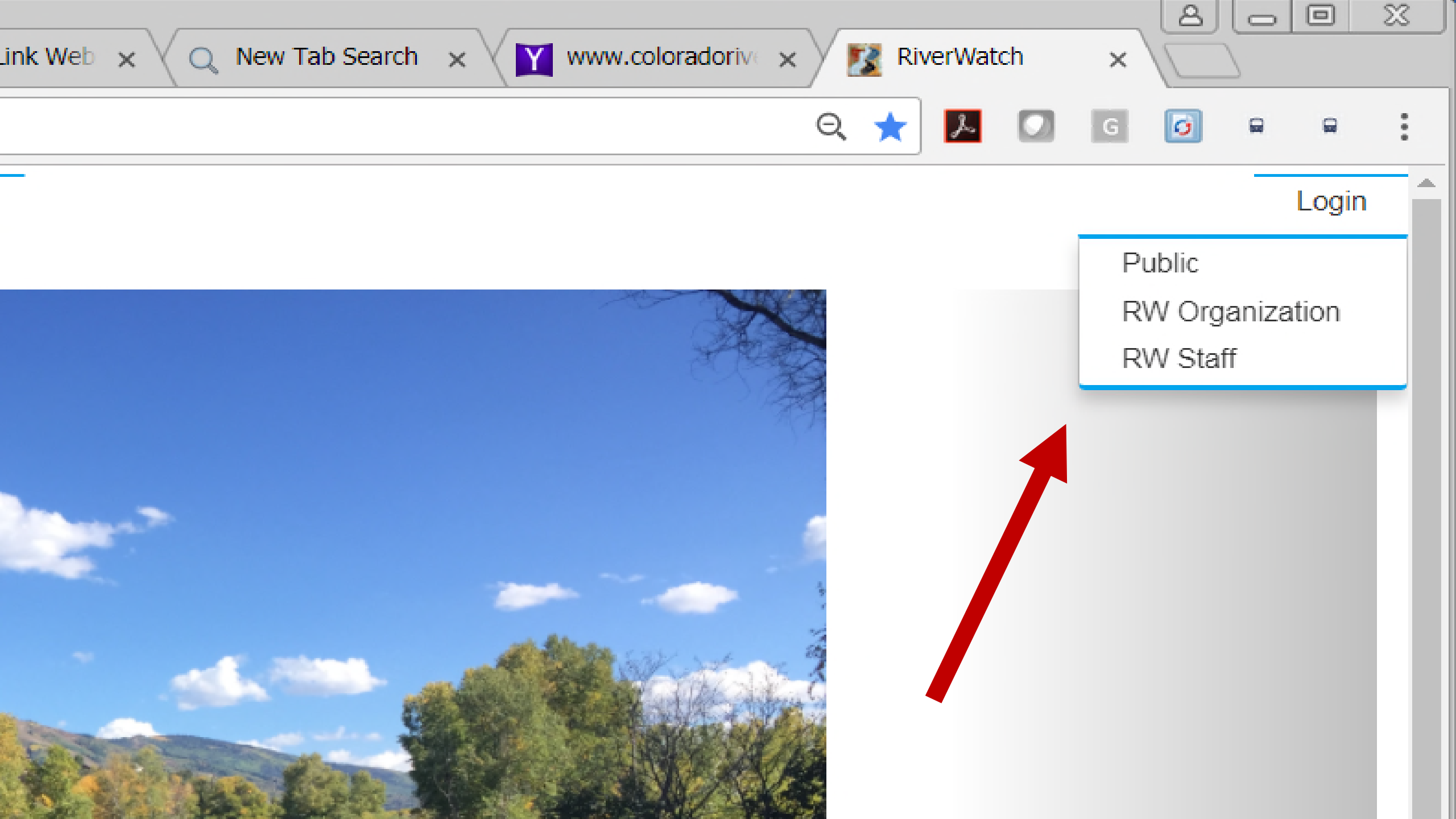
coloradoriverwatch.org/about/our-mission/

CO RIVER WATCH DBASE APPLICATION & WEBSITE

- Permission levels
- Password protected
- Track users and use
- Status and activity of a organization & station real time
- BMP's in storage and data integrity, etc.
- Accessible – so updatable

CO RIVER WATCH DBASE APPLICATION

- Data exports possible – can query
- Access to meta data reports
- Scalable & Agile
- Flexible incorporation of quality assurance measures in validation/reporting



Login

Public

RW Organization

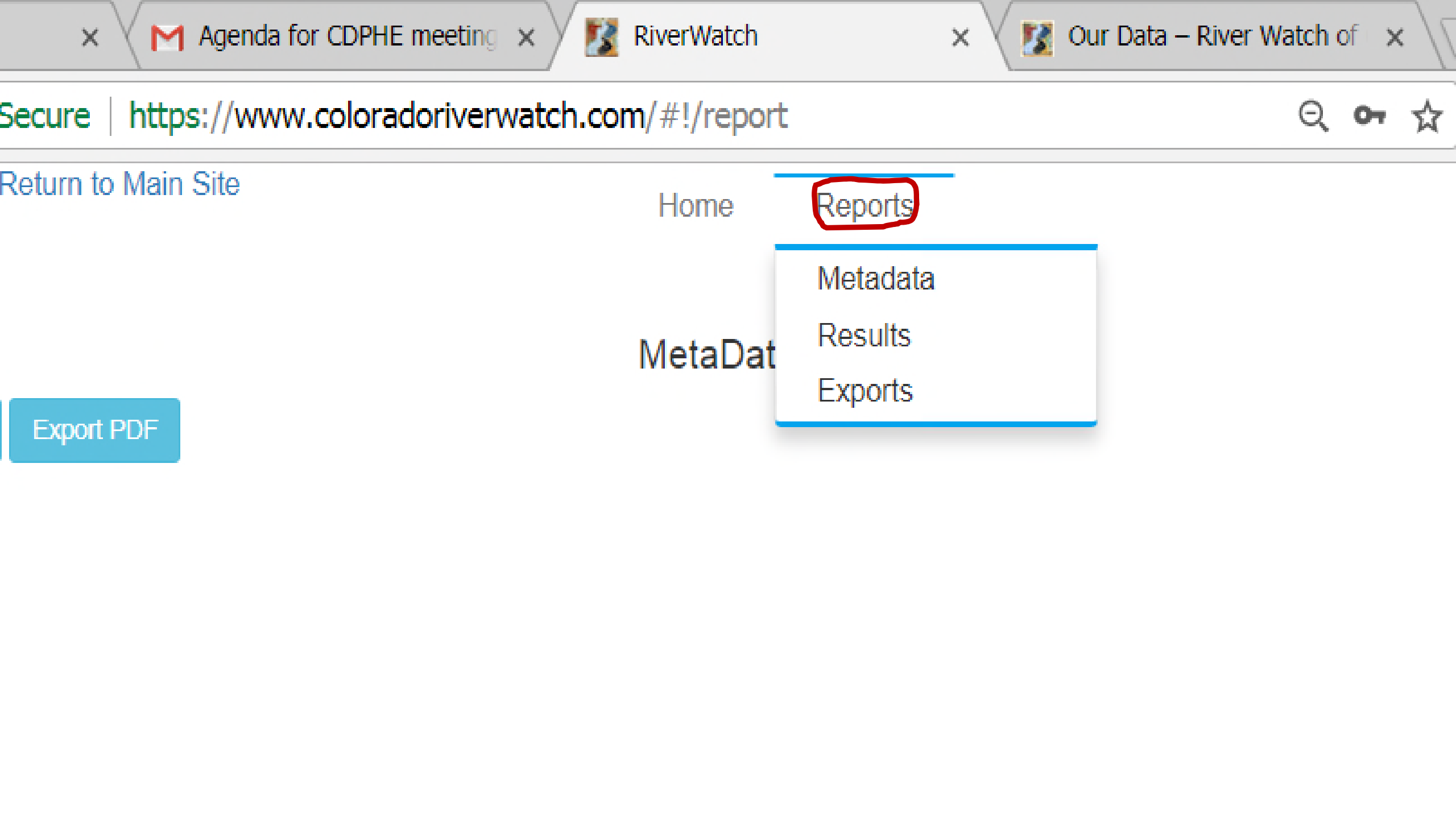
RW Staff

WHAT USER CAN'T DO

Add, edit, validate or change any raw data, look up tables or meta-data

Ask folks go to NWQP or Co DSN for large exports

..



Agenda for CDPHE meeting



RiverWatch



Our Data - River Watch of



Secure | https://www.coloradoriverwatch.com/#!/report



[Return to Main Site](#)

Home

Reports

MetaDat

Metadata

Results

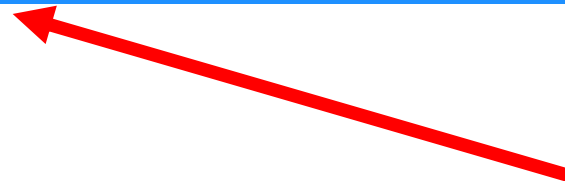
Exports

Export PDF

MetaData Report Selection

Report

Organization by Project
Benthic Taxonomy
Rivers
Stations
Station with Gauges
Station Samples By Type





G Suite



Inbox (16,333) - barb.horn



CenturyLink Webmail: Inbo



RiverWatch



Secure

<https://www.coloradoriverwatch.com/#!/report>

Apps



River Network

go.wildblue.net

River Watch of Colorad



RWHompage



GoDaddy



RWdatabase



CenturyLink Webma

River Watch
of Colorado[Return to Main Site](#)[Home](#)[Samples](#)[Organization](#)[Reports](#)[Admin](#)

MetaData Reports

[Select Report](#)[Export CSV](#)[Export PDF](#)

Organization by Project

Project Name	Project Descri...	Name	Kit Number	Org Type	Station Status	Org Email	Mail Addr
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DOW - Logan	DOW- Jenn Lo...	Battle Mtn HS	17	School	NonActive	marc.vonstrale...	0151 Miller
DOW - Logan	DOW- Jenn Lo...	DOW	0	DOW	NonActive	barb.horn@sta...	6060 Broad
DOW - Logan	DOW- Jenn Lo...	DOW Bakich	455	DOW	NonActive	kendall.bakich...	
DOW - Logan	DOW- Jenn Lo...	DOW Martin	460	DOW	NonActive	lori.martin@sta...	711 Indepe
DOW - Logan	DOW- Jenn Lo...	Eagle River W...	306	Watershed Gro...	NonActive	schoder@erwc...	330 Broadw
DOW - Logan	DOW- Jenn Lo...	Glenwood Spri...	307	School	NonActive	arivera@rfsch...	120 Soccer
DOW - Logan	DOW- Jenn Lo...	Gore Range N...	292	School	NonActive		400 Pine St
DOW - Logan	DOW- Jenn Lo...	James Creek ...	132	Watershed Gro...	NonActive	colleen@jimto...	180 Main S

MetaData Report Selection

Report

Organization by Project
Benthic Taxonomy
Rivers
Stations
Station with Gauges
Station Samples By Type





River Watch
of Colorado

[Return to Main Site](#)

[Home](#)

[Samples](#)

[Organization](#)

[Reports](#)

[Admin](#)

barb.horn@state.co.us

MetaData Reports

Select Report

Export CSV

Export PDF

Benthic Taxonomy

FinalID	AWQMSAllow...	FCD	TSN	ParTSN	Phylum	Subphylum	Class	BOrder	Family	Tribe	Genus	Species
Ablabesmyia	Ablabesmyia		128079		Arthropoda	Hexapoda	Insecta	Diptera	Chironomidae	Pentaneurini	Ablabesmyia	
Acentrella insig...	Acentrella insig...		100996		Arthropoda	Hexapoda	Insecta	Ephemeroptera	Baetidae		Acentrella	Acentrella
Acentrella parv...	Acentrella parv...		609530		Arthropoda	Hexapoda	Insecta	Ephemeroptera	Baetidae		Acentrella	Acentrella
Acentrella sp.	Acentrella		100801		Arthropoda	Hexapoda	Insecta	Ephemeroptera	Baetidae		Acentrella Ben...	
Acentrella turbida	Acentrella turbida		568572		Arthropoda	Hexapoda	Insecta	Ephemeroptera	Baetidae		Acentrella	Acentrella
Acerpenna pyg...	Acerpenna pyg...		206620		Arthropoda	Hexapoda	Insecta	Ephemeroptera	Baetidae		Acerpenna	Acerpenna
Acricotopus sp.	Acricotopus		128463		Arthropoda	Hexapoda	Insecta	Diptera	Chironomidae		Acricotopus	
Acroneuria abn...	Acroneuria abn...		102919		Arthropoda	Hexapoda	Insecta	Plecoptera	Perlidae		Acroneuria	Acroneuria
Aeshnidae	Aeshnidae		101596		Arthropoda	Hexapoda	Insecta	Odonata	Aeshnidae			
Agabus sp.	Agabus		111966		Arthropoda	Hexapoda	Insecta	Coleoptera	Dytiscidae	Agabini	Agabus Leach,	
Agabus sp. lar...	Agabus	larva	111966		Arthropoda	Hexapoda	Insecta	Coleoptera	Dytiscidae		Agabus	
Agapetus boul...	Agapetus		117145		Arthropoda	Hexapoda	Insecta	Trichoptera	Glossosomatidae		Agapetus	
Allomyia sp	Allomyia		116438		Arthropoda	Hexapoda	Insecta	Trichoptera	Apataniidae			

Export CSV

Export PDF

MetaData Report Selection

Report

Organization by Project

Benthic Taxonomy

Rivers

Stations

Station with Gauges

Station Samples By Type

MetaData Report Selection

Report

Stations

Project

ALL

Organization

ALL

Station

ALL

Status

ALL

Water Code

ALL

River

ALL

Eco Region

ALL

Station Type

ALL

Water Body

ALL

Watershed

And..
Watershed
Report
County
SUBMIT button
at bottom

MetaData Reports

Report

[Export CSV](#)[Export PDF](#)

Stations

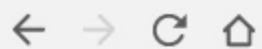
ct Name ▾	Organization ▾	Station Name ▾	Station Numb. ▾	Station Status ▾	Water Body Id ▾	Water Code ▾	River ▾	Description ▾
Watch	DOW (0)	Cement Cr	323	NonActive	COSJAF07	CEMENT CRE...	Cement Cr	Traveling north..
Watch	Silverton HS (63)	Cement Cr	323	NonActive	COSJAF07	CEMENT CRE...	Cement Cr	Traveling north..

ALL THE FIELDS IN STATION FOR FURTHER SORTING:

- Water Body ID (WQCC)
- Water Code (CPW)
- Driving Description
- Station Type
- Aquatic Index
- RW Watershed
- Quadi
- Township
- Range
- Section
- Quarter Section
- Grid

- Sta Quad (Topo map)
- WQCC Sub WS
- Hydro Unit (8 and 12 but..)
- Ecoregion
- Elevation
- Watershed
- Long/Lat
- Utmx /y
- County
- State
- Nearest City
- Region
- USGS/State Engineer Gauge

Minimum versus = Asset

Secure | <https://www.coloradoriverwatch.com/#!/report>River Watch
of Colorado[Return to Main Site](#)[Home](#)[Reports](#)

bhorn@centurylink.net

Logout

MetaData Reports

[Select Report](#)[Export CSV](#)[Export PDF](#)[Station Samples By Type](#)

Count: 20

Station Numb.∞	Field ∞	Metal ∞	Nutrient ∞	Bugs ∞	Phys Hab ∞	Oldest Field S.∞	Newest Field ∞	Oldest Metal ∞	Newest Metal ∞
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1	false	false	false	false	false				
2	true	false	false	false	false	05/11/2017	05/11/2017		
3	false	false	false	false	false				
4	false	false	false	false	false				
6	true	true	false	false	false	10/25/1990	02/04/1999	10/25/1990	12/11/1990
7	true	false	false	false	false	10/25/1990	02/04/1999		
8	true	true	true	false	false	10/25/1990	05/13/2004	10/25/1990	05/13/2004
9	true	true	false	false	false	10/25/1990	05/13/1999	10/25/1990	05/13/1999
10	true	true	true	false	false	10/09/1991	05/18/2011	10/09/1991	05/18/2011
11	true	false	false	false	false	02/07/2017	04/20/2017		
12	true	true	false	false	false	04/22/1991	12/20/1996	04/22/1991	12/20/1996
13	true	true	false	false	false	09/27/1990	05/07/1998	01/16/1998	05/07/1998
14	true	true	false	false	false	09/27/1990	03/20/2001	01/31/1991	05/17/2001
15	true	true	true	false	false	01/11/2008	08/28/2015	01/11/2008	08/28/2015
16	true	true	false	false	false	11/16/2016	01/18/2017	11/16/2016	01/18/2017
17	true	true	false	false	false	02/25/2000	02/25/2011	02/25/2000	02/25/2011

Exports Report Selection

Report

AWQMS - Bugs
AWQMS - Field
AWQMS - Metal/Nutrients
AWQMS - Physical Habitat
AWQMS - Station
EDAS - Bugs
EDAS - Station Predictors
GAP - River Codes
GAP - RWStoret
GAP - Station Description
GAP - Tracking
GAP - WBKey
WQSTD - H2O
Raw Tables

The Ambient Water
Quality Monitoring
System (AWQMS)=NWP
Schema

<https://goldsystems.com/>



G Suite



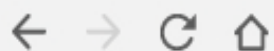
Agenda for CDPHE meeting



RiverWatch



Our Data - River Watch of Colorado



Secure

https://www.coloradoriverwatch.com/#!/report



River Watch
of Colorado

[Return to Main Site](#)

Home

Reports

bhorn@centurylink.net

MetaDat

Metadata

Results

Exports

Select Report

Export CSV

Export PDF

Results Report Selection

Report

All Sample Results

Please open and read the attached FAQ PDF document to understand how these reports work. After you have read the document, please acknowledge reading it by clicking the checkbox below.



FAQ

I have read the FAQ ☐

Select Result Type

☒ Chemicals ☐ Bugs ☐ Physical Habitat

Organization

ALL

Project

ALL

Watershed

ALL

County

ALL

WQCC Sub Watershed

ALL

Watershed Gathering

ALL

River

ALL

WaterCode

ALL

Watershed Body Id

ALL

Watershed Report

ALL

Station

ALL

Year

2017

Run Report

Cancel

Reset

5 Results in Excel only

Clipboard		Font		Alignment		Number		Formatting		Table		Styles		Cells	
B1				StationName											
	A	B	C	D	E	F	G	H	I						
1	StationNumber	StationName	Event	SampleNumber	SampleDate	SampleTime	TypeCode	Watershed	River						
2	350	At FR 818	350.001	350201310081255	10/08/2013	12:55	00	SJ	W Mamm						
3	351	Abv Conf W Mamm	351.001	351201310080950	10/08/2013	09:50	00	SJ	Mid Mamm						
4	3064	Blw Falls 0.25 Miles	3064.001	3064201110251210	10/25/2011	12:10	00	SJ	E M Fk Parac						
5	3064	Blw Falls 0.25 Miles	3064.002	3064201210230955	10/23/2012	09:55	00	SJ	E M Fk Parac						
6	3064	Blw Falls 0.25 Miles	3064.003	3064201310211045	10/21/2013	10:45	00	SJ	E M Fk Parac						
7	3064	Blw Falls 0.25 Miles	3064.004	3064201410231250	10/23/2014	12:50	00	SJ	E M Fk Parac						
8	3064	Blw Falls 0.25 Miles	3064.005	3064201510221245	10/22/2015	12:45	00	SJ	E M Fk Parac						
9	3065	Abv Bear Cabin G	3065.001	3065201110251400	10/25/2011	14:00	00	SJ	E M Fk Parac						
10	3065	Abv Bear Cabin G	3065.002	3065201210231435	10/23/2012	14:35	00	SJ	E M Fk Parac						
11	3065	Abv Bear Cabin G	3065.003	3065201310211330	10/21/2013	13:30	00	SJ	E M Fk Parac						
12	3065	Abv Bear Cabin G	3065.004	3065201410231110	10/23/2014	11:10	00	SJ	E M Fk Parac						
13	3065	Abv Bear Cabin G	3065.005	3065201510221055	10/22/2015	10:55	00	SJ	E M Fk Parac						
14	3066	Blw Bear Cabin G 0.25 Mi	3066.001	3066201110261025	10/26/2011	10:25	00	SJ	E M Fk Parac						
15	3066	Blw Bear Cabin G 0.25 Mi	3066.002	3066201410230930	10/23/2014	09:30	00	SJ	E M Fk Parac						
16	3066	Blw Bear Cabin G 0.25 Mi	3066.003	3.0662E+15	10/22/2015	09:45	00	SJ	E M Fk Parac						
17	3067	Blw Bear Cabin G 0.5 Mi	3067.001	3067201110261245	10/26/2011	12:45	00	SJ	E M Fk Parac						
18	3068	Abv Conf M Fk Parachute	3068.001	3068201110261420	10/26/2011	14:20	00	SJ	E M Fk Parac						
19	3592	Above WWTP	3592.042	3592200707161536	07/16/2007	15:36	00	SJ	San Migue						
20	3800	Abv Conf Northwater Cr	3800.001	3800200806241030	06/24/2008	10:30	00	SJ	Trapper C						
21	3800	Abv Conf Northwater Cr	3800.002	3800201108170930	08/17/2011	09:30	00	SJ	Trapper C						
22	3801	Blw Third Water G	3801.001	3801200806251820	06/25/2008	18:20	00	SJ	E Fk Parachu						
23	3801	Blw Third Water G	3801.002	3801201108161700	08/16/2011	17:00	00	SJ	E Fk Parachu						
24	3802	Blw Conf Baldy Cr	3802.001	3802200807081345	07/08/2008	13:45	00	SJ	Garfield C						
25	3802	Blw Conf Baldy Cr	3802.002	3802201107070245	07/07/2011	02:45	00	SJ	Garfield C						

	A	B	C	D	E	F	U	V	W	X
1	StationNumber	StationName	Event	SampleNumber	SampleDate	SampleTime	Do	DoSat	Ph	PhenA
2	350	At FR 818	350.001	350201310081255	10/08/2013	12:55				
3	351	Abv Conf W Mamm	351.001	351201310080950	10/08/2013	09:50				
4	3064	Blw Falls 0.25 Miles	3064.001	3064201110251210	10/25/2011	12:10	10		8.92	
5	3064	Blw Falls 0.25 Miles	3064.002	3064201210230955	10/23/2012	09:55	9.4		8.75	8
6	3064	Blw Falls 0.25 Miles	3064.003	3064201310211045	10/21/2013	10:45	11.23		8.56	28
7	3064	Blw Falls 0.25 Miles	3064.004	3064201410231250	10/23/2014	12:50				
8	3064	Blw Falls 0.25 Miles	3064.005	3064201510221245	10/22/2015	12:45				
9	3065	Abv Bear Cabin G	3065.001	3065201110251400	10/25/2011	14:00	10		8.94	
10	3065	Abv Bear Cabin G	3065.002	3065201210231435	10/23/2012	14:35	8.3		8.48	32
11	3065	Abv Bear Cabin G	3065.003	3065201310211330	10/21/2013	13:30	11		8.45	36
12	3065	Abv Bear Cabin G	3065.004	3065201410231110	10/23/2014	11:10				
13	3065	Abv Bear Cabin G	3065.005	3065201510221055	10/22/2015	10:55				
14	3066	Blw Bear Cabin G 0.25 Mi	3066.001	3066201110261025	10/26/2011	10:25	11		8.42	
15	3066	Blw Bear Cabin G 0.25 Mi	3066.002	3066201410230930	10/23/2014	09:30				
16	3066	Blw Bear Cabin G 0.25 Mi	3066.003	3.0662E+15	10/22/2015	09:45				
17	3067	Blw Bear Cabin G 0.5 Mi	3067.001	3067201110261245	10/26/2011	12:45	10		8.77	
18	3068	Abv Conf M Fk Parachute	3068.001	3068201110261420	10/26/2011	14:20	5		8.98	
19	3592	Above WWTP	3592.042	3592200707161536	07/16/2007	15:36			8.01	0
20	3800	Abv Conf Northwater Cr	3800.001	3800200806241030	06/24/2008	10:30			8.8	
21	3800	Abv Conf Northwater Cr	3800.002	3800201108170930	08/17/2011	09:30	8		8.64	40
22	3801	Blw Third Water G	3801.001	3801200806251820	06/25/2008	18:20			8.55	
23	3801	Blw Third Water G	3801.002	3801201108161700	08/16/2011	17:00	8		8.45	22
24	3802	Blw Conf Baldy Cr	3802.001	3802200807081345	07/08/2008	13:45			8.64	
25	3802	Blw Conf Baldy Cr	3802.002	3802201107270945	07/27/2011	09:45	9		8.61	22
26	3803	Abv Conf Baldy Cr	3803.001	3803200807091345	07/09/2008	13:45			8.6	
27	3803	Abv Conf Baldy Cr	3803.002	3803201107271230	07/27/2011	12:30	7		8.51	36
28	3804	Blw Conf Baldy Cr	3804.001	3804200807101000	07/10/2008	10:00			8.6	

Font		Alignment		Number	Formatting		Table	Styles	Cells		Filter		Select
					Styles						Editing		
StationName													
B	C	D	E	F	AD	AE	AF	AG	AH	AI			
StationName	Event	SampleNumber	SampleDate	SampleTime	Al D	Al T	As D	As T	Ca D	Ca T			
At FR 818	350.001	350201310081255	10/08/2013	12:55	0	858	0	0	56056	56422			
Abv Conf W Mamm	351.001	351201310080950	10/08/2013	09:50	0	107	0	0	71199	71474			
Blw Falls 0.25 Miles	3064.001	3064201110251210	10/25/2011	12:10	0	101	0	0	52733	53101			
Blw Falls 0.25 Miles	3064.002	3064201210230955	10/23/2012	09:55	0	0	0	0	49785	50069			
Blw Falls 0.25 Miles	3064.003	3064201310211045	10/21/2013	10:45	52	48	0	0	52677	52809			
Blw Falls 0.25 Miles	3064.004	3064201410231250	10/23/2014	12:50	0	80	0	0	46373	46844			
Blw Falls 0.25 Miles	3064.005	3064201510221245	10/22/2015	12:45	0	29	0	0	48272	48598			
Abv Bear Cabin G	3065.001	3065201110251400	10/25/2011	14:00	0	40	0	0	48573	52051			
Abv Bear Cabin G	3065.002	3065201210231435	10/23/2012	14:35	0	0	0	0	47466	48335			
Abv Bear Cabin G	3065.003	3065201310211330	10/21/2013	13:30	0	0	0	0	51440	51978			
Abv Bear Cabin G	3065.004	3065201410231110	10/23/2014	11:10	0	409	0	0	45258	46051			
Abv Bear Cabin G	3065.005	3065201510221055	10/22/2015	10:55	0	32	0	0	47850	48314			
Blw Bear Cabin G 0.25 Mi	3066.001	3066201110261025	10/26/2011	10:25	0	71	0	0	46667	46648			
Blw Bear Cabin G 0.25 Mi	3066.002	3066201410230930	10/23/2014	09:30	0	18	0	0	43228	43837			
Blw Bear Cabin G 0.25 Mi	3066.003	3.0662E+15	10/22/2015	09:45	0	28	0	0	47124	46962			
Blw Bear Cabin G 0.5 Mi	3067.001	3067201110261245	10/26/2011	12:45	0	47	0	0	47009	47236			
Abv Conf M Fk Parachute	3068.001	3068201110261420	10/26/2011	14:20	0	49	0	0	45863	49238			
Above WWTP	3592.042	3592200707161536	07/16/2007	15:36	0	275	0	47	33285	33909			
Abv Conf Northwater Cr	3800.001	3800200806241030	06/24/2008	10:30	37	252	0	38	44787	45497			
Abv Conf Northwater Cr	3800.002	3800201108170930	08/17/2011	09:30	0	102	0	0	51969	52905			
Blw Third Water G	3801.001	3801200806251820	06/25/2008	18:20	24	147	0	56	55277	56958			
Blw Third Water G	3801.002	3801201108161700	08/16/2011	17:00	0	104	0	0	55848	57974			
Blw Conf Baldy Cr	3802.001	3802200807081345	07/08/2008	13:45	31.9	338.8	0	0	63850	64300			

Font		Alignment		Number		Formatting		Table		Styles		Cells		Filter		Select	

	A	B	C	D	E	F	G	H	I	J
1	StationNumber	StationName	Event	SampleNumber	SampleDate	SampleTime	TypeCode	Watershed	River	OrganizationName
2	85	Abv Conf La Plata	85.091	85201701061015	01/06/2017	10:15	00	SP	Long Hollow Cr	DOW
3	85	Abv Conf La Plata	85.092	85201704050945	04/05/2017	09:45	00	SP	Long Hollow Cr	DOW
4	85	Abv Conf La Plata	85.093	85201705030800	05/03/2017	08:00	00	SP	Long Hollow Cr	DOW
5	85	Abv Conf La Plata	85.094	85201706041700	06/04/2017	17:00	00	SP	Long Hollow Cr	DOW
6	85	Abv Conf La Plata	85.095	85201707031000	07/03/2017	10:00	00	SP	Long Hollow Cr	DOW
7	85	Abv Conf La Plata	85.096	85201708220959	08/22/2017	09:59	00	SP	Long Hollow Cr	DOW
8	85	Abv Conf La Plata	85.097	85201709061230	09/06/2017	12:30	00	SP	Long Hollow Cr	DOW
9	604	Abv Long Hollow Res	604.014	604201701061000	01/06/2017	10:00	00	SP	Long Hollow Cr	DOW
10	604	Abv Long Hollow Res	604.015	604201702060845	02/06/2017	08:45	00	SP	Long Hollow Cr	DOW
11	604	Abv Long Hollow Res	604.016	604201703020830	03/02/2017	08:30	00	SP	Long Hollow Cr	DOW
12	604	Abv Long Hollow Res	604.017	604201704050845	04/05/2017	08:45	00	SP	Long Hollow Cr	DOW
13	604	Abv Long Hollow Res	604.018	604201705030715	05/03/2017	07:15	00	SP	Long Hollow Cr	DOW
14	604	Abv Long Hollow Res	604.019	604201706041600	06/04/2017	16:00	00	SP	Long Hollow Cr	DOW
15	604	Abv Long Hollow Res	604.020	604201707030900	07/03/2017	09:00	00	SP	Long Hollow Cr	DOW
16	604	Abv Long Hollow Res	604.021	604201708220900	08/22/2017	09:00	00	SP	Long Hollow Cr	DOW
17	604	Abv Long Hollow Res	604.022	604201709061130	09/06/2017	11:30	00	SP	Long Hollow Cr	DOW
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
	ChemicalResults	ChemicalQualifiers								

[illegible]

×


Admin Report Selection

[Export PDF](#)

Report

Stations With No Samples
Events With No Data
Stations With Samples But No Description
Organizations Without Samples - By Quarter
Consecutive Monthly Samples By Station
Chemical Limits
All Users

1. Select an Organization and Station for which you are entering data

Select Organization: * 

DOW - 0

Organization: DOW

Kit#: 0

Select Station: * 

Cement Cr - Cement Cr - 323

Station: Cement Cr

Station #: 323

River: Cement Cr

2. Enter Sample Information

Date & Time Collected:

Mar-14-2019

22

:

21

Submit

If flow is estimated, enter the result in the comment field below

USGS Flow (cfs):

0.0

☐ Gauge Data?

pH:

0.0



Alkalinity Total (mg/L):

0.0

Total Hardness (mg/L):

0.0

Saturation:

Dissolved Oxygen (mg/L):

0.0

4. Enter Samples Collected

Metals

- ☐ Normal
- ☐ Blank
- ☐ Duplicate

Nutrients

- ☐ NP
- ☐ Standard CS
- ☐ TSS
- ☐ Duplicate NP
- ☐ Duplicate CS
- ☐ Duplicate TSS

Invertebrates

- ☐ Bugs
- ☐ BugsQA

Comment:

<Comments>

<div>ent</div> <div></div>	<div>Date Collected</div> <div></div>	<div> <div>Import</div> <div>Admin</div> <div>Metal Barcodes</div> <div>Nutrient Barcodes</div> </div>	<div> <div>Field Records</div> <div>Metal Records</div> <div>Nutrient Records</div> <div>Unknown Sample Records</div> </div>
<div></div>	<div></div>	<div>Station Name</div> <div></div>	<div>Organization Name</div> <div></div>

Search

Count: 8

▼	AL_D ▼	AL_T ▼	AS_D ▼	AS_T ▼	CA_D ▼	CA_T ▼	CD_D ▼	CD_T ▼	CU_D ▼	CL
	11	78	0	0	12966	13116	0.2	0.3	5.5	5.7
		199		0		12413		0.33		5.7
							0.44	0.45	9.8	12
							0.48	0.61	9.8	12
							0.98	1.04	13.9	19
							1.41	1.51	18.1	23
							1.04	0.96	16.2	23
							1.38	1.17	17.8	24

Count: 3

Edit

▼	Field	▼	Message

Event

311.080

Type

23

AL_D

<AL_D>

Swap

AS_D

<AS_D>

Swap

CA_D

<CA_D>

Swap

CD_D

<CD_D>

Swap

CU_D

Google

Inbox (22,700) - barb.horn@state.co

RiverWatch

← → ↺ ⌂

https://www.coloradoriverwatch.com/#!/sample/entry/sample

🔑 🔍 ⭐ 📄 ⚙️ 🌐 📧

» 📁 Other bookmarks

📱 Apps 🌐 River Network go.wildblue.net 📄 River Watch of Color... 🌐 RWHHomepage 📄 GoDaddy 🌐 RWdatabase 📄 CenturyLink Webmail... 📄 Existingdatabase 📄 AWQMS updates - ba...

sample

Count: 309

Edit

Sample

Sample Number	Event	Date Collected	Station Name	Organization Name
323201902071145	323.309	02/07/2019	Cement Cr	DOW
323201901081130	323.308	01/08/2019	Cement Cr	DOW
323201812041015	323.307	12/04/2018	Cement Cr	DOW
323201811151323	323.306	11/15/2018	Cement Cr	DOW
323201811081100	323.305	11/08/2018	Cement Cr	DOW
323201810031045	323.304	10/03/2018	Cement Cr	DOW
323201809070945	323.303	09/07/2018	Cement Cr	DOW
323201808031130	323.302	08/03/2018	Cement Cr	DOW
323201807051115	323.301	07/05/2018	Cement Cr	DOW
323201806070845	323.300	06/07/2018	Cement Cr	DOW
323201805081045	323.299	05/08/2018	Cement Cr	DOW
323201804051015	323.298	04/05/2018	Cement Cr	DOW

Benthos

Chemical

Metal Barcode

Nutrient Barcode

Physical Habitat

Org Status

Add

Delete

Bugs

Type:

Add

Delete

View

Count: 0

Taxonomy	Lifecycle	Count	% In 100	Comments	Enter Date
----------	-----------	-------	----------	----------	------------

Sample Number

323201812041015

Station

323 - Cement Cr

Event

323.307

Date Collected

December 4, 2018

Time Collected

10:15 AM

Organization

DOW

Date Received

12/07/2018

Data Sheet Included

Yes

Missing Data Sheet Requested

<Missing Data Sheet Requested>

Missing Data Sheet Received

No

Chain of Custody

Yes

No Metals

No

No Nutrients

No

Physical Habitat

No

6 of 54

Notes

Comments

76%

10:27 PM

3.305	11/08/2018	Cement Cr	DOW
3.304	10/03/2018	Cement Cr	DOW
3.303	09/07/2018	Cement Cr	DOW
3.302	08/03/2018	Cement Cr	DOW
3.301	07/05/2018	Cement Cr	DOW
3.300	06/07/2018	Cement Cr	DOW
3.299	05/08/2018	Cement Cr	DOW
3.298	04/05/2018	Cement Cr	DOW

Metal Barcode

Nutrient Barcode

Physical Habitat

Org Status



End Date

06/30/2019



☒ Signed



☐ Visited

A: M: J: J: 179 A: 150 S: 177 O: 150

Chain of Custody

Yes

No Metals

No

No Nutrients

No

Physical Habitat

No

Bugs

No

TSS

No

N/P

No

Chloride Sulfate

No

Duplicated TSS

No

Duplicated N/P

No

Duplicated CS

No

Blank Metals

No

Duplicated Metals

No

Bugs QA

No

HOW TO MAKE DATA SETS ASSETS

Evaluate

**Commit & ID info
needs & align purpose,
use, users, ROI's**

Step 5

Step 1

IMPLEMENT

Step 4

Step 2

**Manage data for
info products**

**Inventory info generating,
map work flow**

Step 3

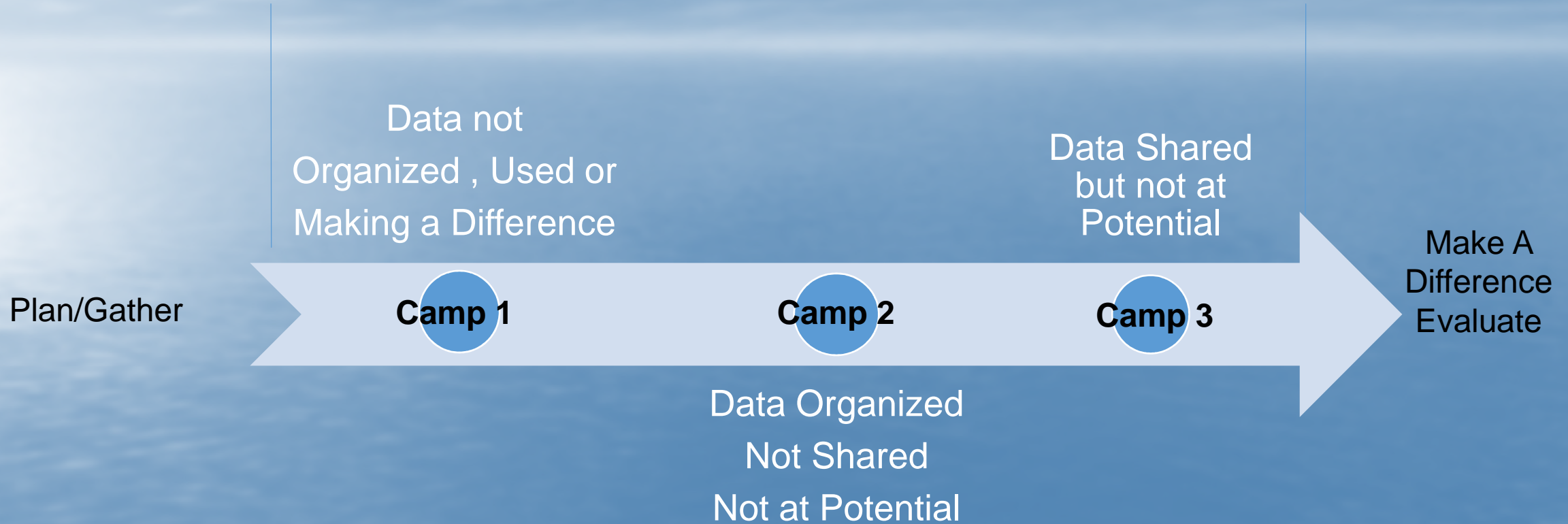
**Manage Raw
Data to Verified**

Raw Data – Watershed Reports

River Watch is a statewide volunteer water quality-monitoring program operated by the non profit 501©3 **Earth Force** in cooperation with **Colorado Parks and Wildlife (CPW)**. Our mission is to work with voluntary stewards to monitor water quality and other indicators of watershed

coloradoriverwatch.org/about/our-mission/ ity data to educate citizens and inform decision makers about

IS YOUR DATA AN ASSET?





THANK YOU
QUESTIONS
COMMENTS

Barb.horn@state.co.us

www.waterdatacollaborative.org